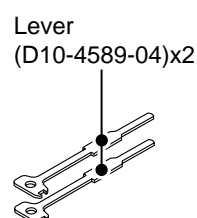
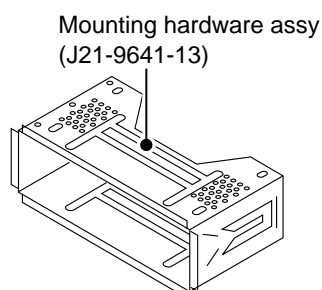
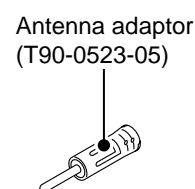
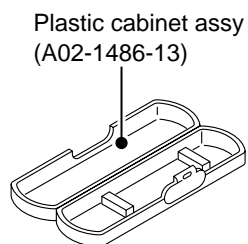
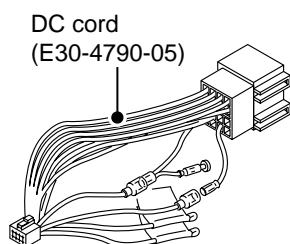
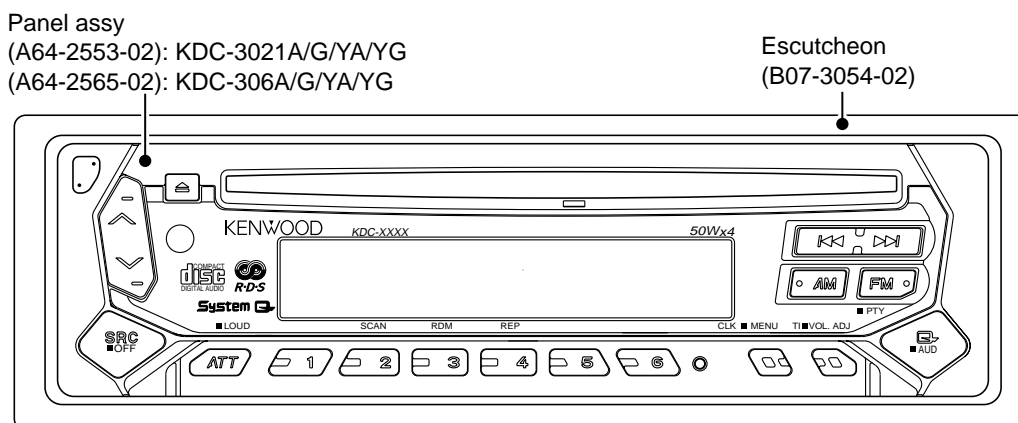
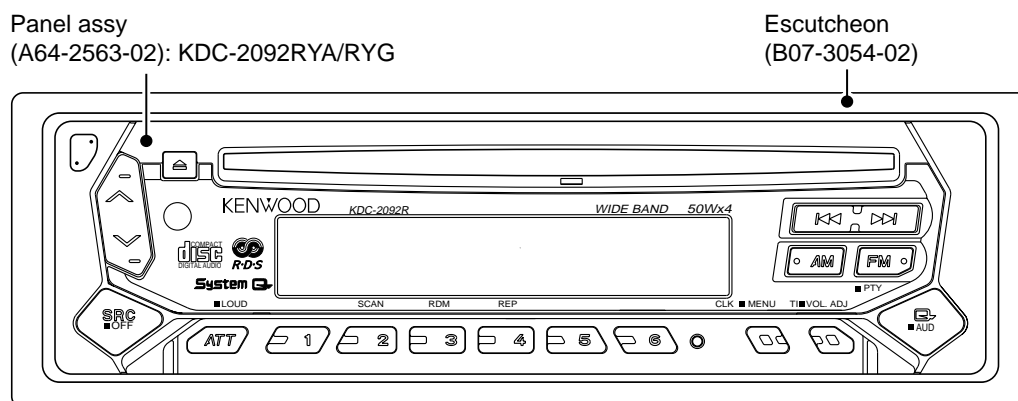


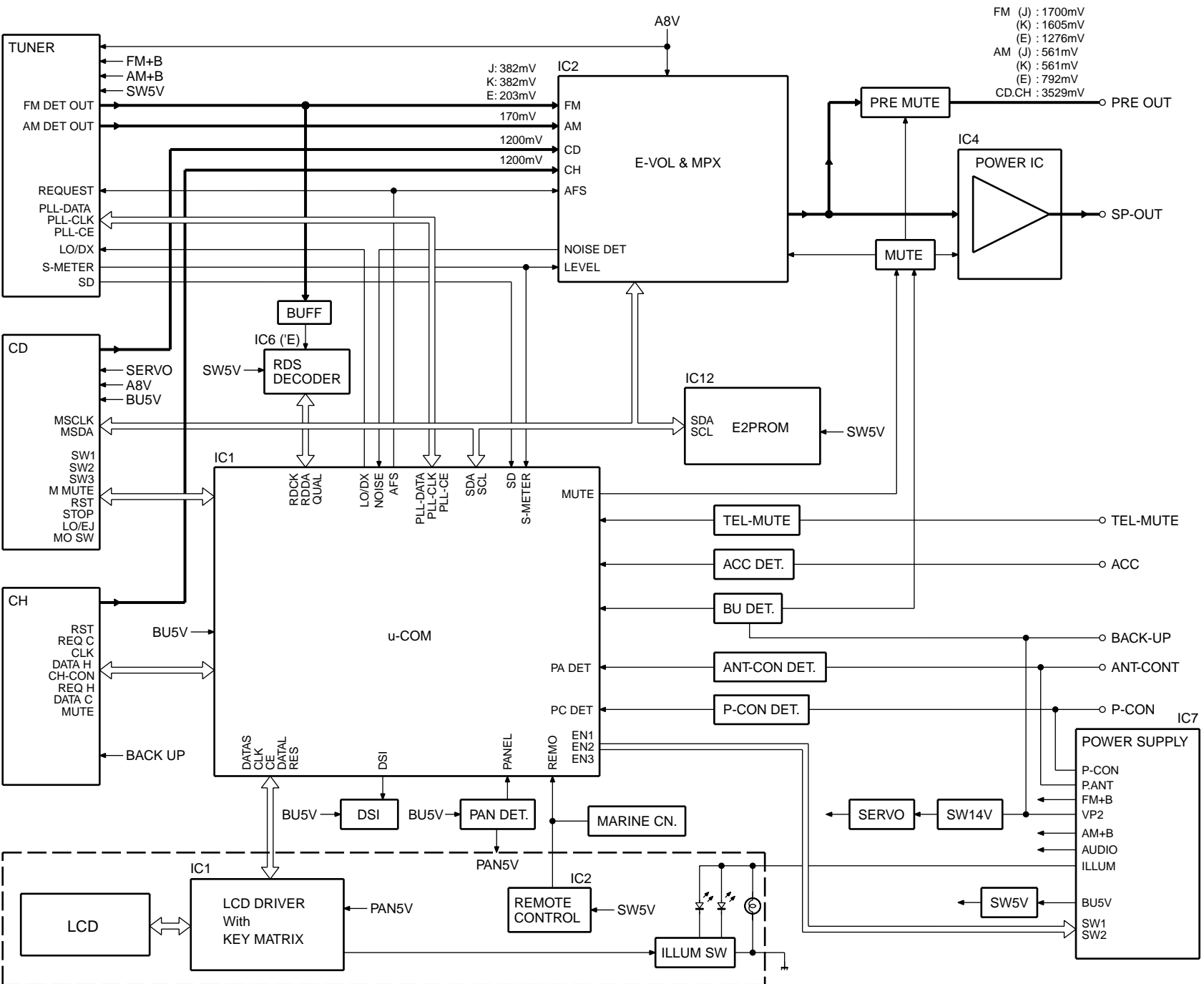
KDC-2092RYA/RYG KDC-3021A/G/YA/YG KDC-306A/G/YA/YG SERVICE MANUAL

The CD mechanism information is not in this service manual.
Please, refer to service manual X92-4030-0x (B51-7867-00).

CD mechanism extension cord : W05-0618-00



BLOCK DIAGRAM



MICROCOMPUTER'S TERMINAL DESCRIPTION

SYSTEM MICROCOMPUTER μ PD780058GC-XXX (IC1 : X25)

Pin No.	Pin Name	I/O	Purpose	Processing in STBY Mode
1	PANEL	I	Panel detection	Hi-Z
2	8EJE SW *1	I	8 cm disk eject end detection switch	L, L when the 8 cm CD compatibility is not provided.
3	NC	O	Not used	L
4	AVss	-	GND potential (for A/D and D/A)	-
5	L-RST	O	LCD driver reset	H, L when the panel is detached or with 7-segment output.
6	L-CE	O	LCD driver chip enable	L, L is output when the panel is detached.
7	AVREF1	I	5V power supply (D/A converter reference voltage)	-
8	NC	I	Not used	Hi-Z
9	PLL-DATA	I/O	F/E (IC3) communication data	L
10	PLL-CLK	O	F/R (IC3) communication clock	L
11	L-DATAL	I	LCD driver communication data (LCD)	Hi-Z
12	L-DATAS	O	LCD driver communication data (SYSTEM)	L, L is output when the panel is detached.
13	L-CLK	O	LCD driver communication clock	H, L is output when the panel is detached.
14	R-DATA	I	RDS DATA	Hi-Z, L when RDS is not available.
15	R-QUAL	I	RDS QUAL	Hi-Z, L when RDS is not available.
16	CH-DATAC	I	5-wire communication data (CH)	Hi-Z, L when CH is not available.
17	CH-DATAH	O	5-wire communication data (HEAD)	L, L when CH is not available.
18	CH-CLK	I/O	5-wire communication clock	Hi-Z, L when CH is not available.
19	CH-REQH	O	5-wire CH request (HEAD)	H, L when CH is not available.
20	PLL-CE	O	F/E chip enable	L
21	AFS	O	Noise detection time constant switching	L
22	LO/DX	O	Local seek switching	L
23~26	NC	O	Not used	L
27	SD	I	Station detection	Hi-Z
28	CH-CONT	O	5-wire communication CH ON output	L, L when CH is not available.
29	TYPE REF	O	Destination type and servicing setting 5V output	L
30	TYPE2	I	Destination type setting	Hi-Z
31	TYPE1	I	Destination type setting	Hi-Z
32	TYPE0	I	Destination type setting	Hi-Z
33	Vss1	-	GND potential (for other parts than ports and analog circuitry)	-
34	IC2TYPE1	I	Servicing pin (SEL1), normally "L"	Hi-Z
35	IC2TYPE0	I	Servicing pin (SEL0), normally "L"	Hi-Z
36	DATA	I/O	IC2, CD mechanism and F/E communication data	L
37	CLK	O	IC2, CD mechanism and F/E communication clock	L
38	MUTE	O	Muting control output	L, 15 sec. after power OFF.
39	P-MUTE	O	PWR IC muting output	H, 15 sec. after power OFF.
40	SVR	O	SVR control output	L
41	P-STBY	O	PWR IC standby output	L
42	SW5V	O	SW5 control output	"H" in 10 sec. after power OFF.
43	B.U-DET	I	B.U. detection	Hi-Z
44	ACC-DET	I	ACC detection	Hi-Z
45,46	NC	O	Not used	L
47~49	PS1-0~PS1-2	O	Power supply IC AUD/P.CON/P.ANT SW	L
50	BEEP	O	Buzzer output	L
51,52	PS2-0,PS2-1	O	Power supply IC ILL/AM/FM SW	L
53	DSI	O	DSI control output	L, H/L when panel is detached. FIX output is L.

MICROCOMPUTER'S TERMINAL DESCRIPTION / ADJUSTMENT

Pin No.	Pin Name	I/O	Purpose	Processing in STBY Mode
54	LOE/LIM SW	I	CD mechanism Down & Limit detection	Hi-Z
55	MOSW	O	CD mechanism motor switching	L
56	LO/EJ	I/O	Lo/Ej switching	Hi-Z
57	M-STOP	O	Mechanism COM stop output	L
58	M-RST	O	Mechanism COM reset output	H
59	M-MUTE	I	Mechanism COM mute input	Hi-Z
60	RESET	I	System reset input	Hi-Z
61	REMO	I	Remote control input	Hi-Z
62	R-CLK	I	RDS CLOCK	Hi-Z, L when RDS is not available.
63	CH-REQC	I	5-wire CH request (CH)	Hi-Z, L when CH is not available.
64	LOS SW	I	Loading SW detection	Hi-Z
65	KEY-REQ	I	Key input detection	Hi-Z
66	12EJE SW	I	12 cm disc detection	Hi-Z
67	Vss0	-	GND potential (for ports)	-
68	VDD1	-	Positive power supply (for other parts than ports and analog circuitry)	-
69	X2	-	Main system clock oscillation	-
70	X1	I	Main system clock oscillation	-
71	IC	-	Flash uCOM write	-
72	XT2	-	Not used	-
73	XT1	-	Not used (Connected to 5V power supply)	-
74	VDD0	-	Positive power supply (for ports)	-
75	AVREF0	I	5V power supply (A/D converter reference voltage)	-
76	S-METER	I	S-meter input	Hi-Z
77	PHONE	I	Navigation muting 2.5V or more, Telephone muting 1V or less.	Hi-Z, L when TEL is not available.
78	NOISE	I	FM noise detection	Hi-Z, L when RDS is not available.
79	NC	O	Not used	L
80	AVCONT	O	A/D reference voltage control	L

ADJUSTMENT

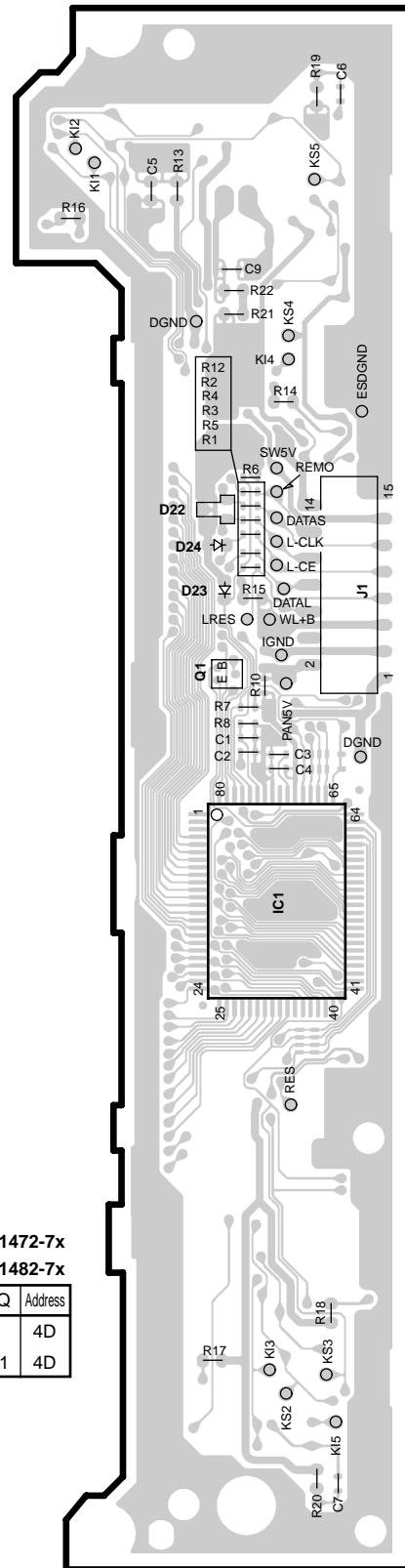
No.	ITEM	INPUT SETTINGS	TUNER (RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR
FM SECTION					
1	SD	98.1MHz 0 dev 35dB μ (ANT input)	TEST MODE : ON FM 98.1MHz	Preset "1" key, and preset "6" key	While holding preset "1" key, press and hold preset "6" key for a few seconds. "ADJ OK" is good. "ADJ NG" is not good.
AM SECTION					
(1)	SD	990kHz 0% mod 35dB μ (ANT input)	TEST MODE : ON AM 990kHz	Preset "1" key, and preset "6" key	While holding preset "1" key, press and hold preset "6" key for a few seconds. "ADJ OK" is good. "ADJ NG" is not good.

TEST MODE : ON While holding the FM key and preset "6" key, reset the unit.

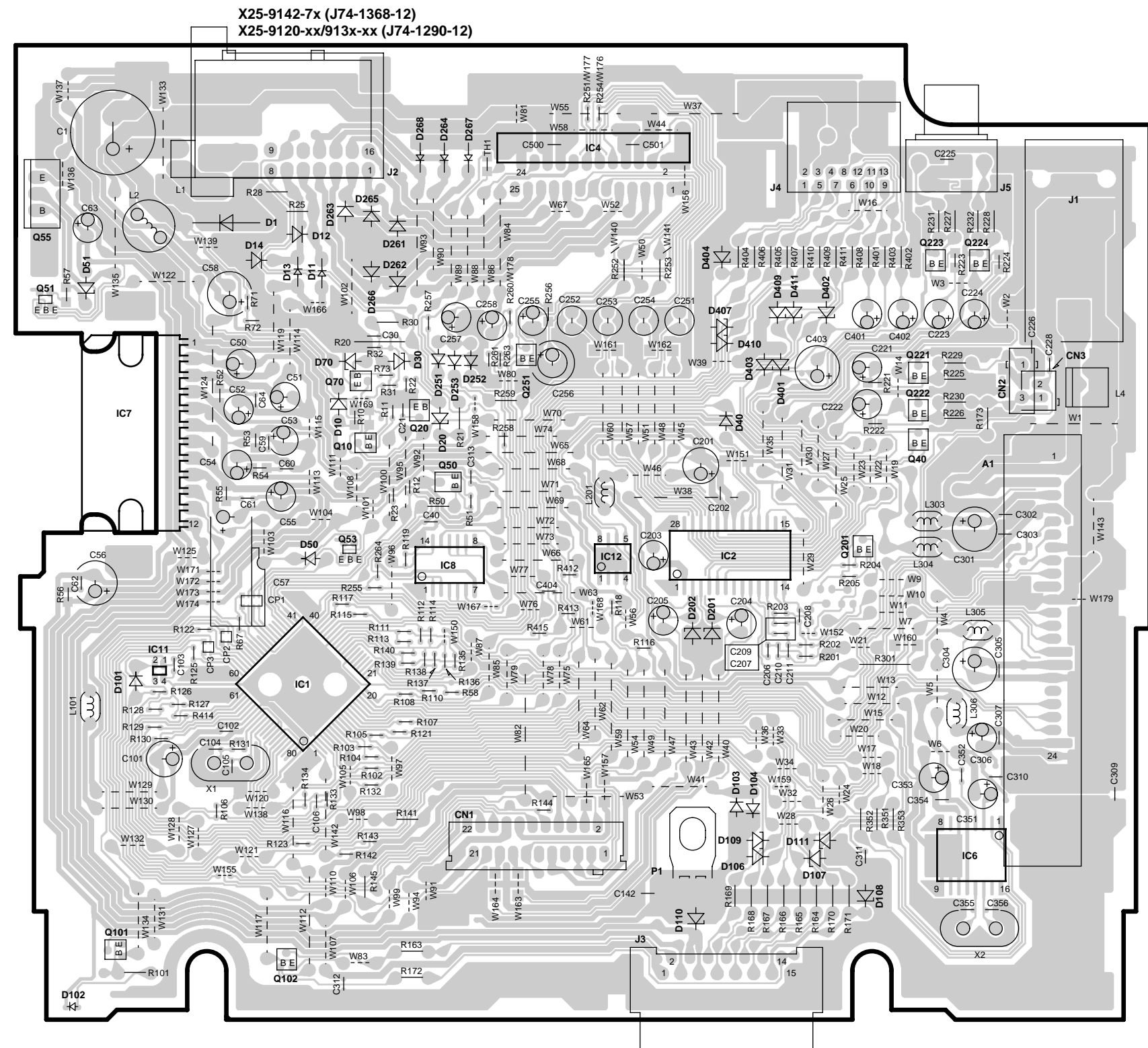
TEST MODE : OFF Reset the unit.

- 1
- 2
- 3
- 4
- 5
- 6

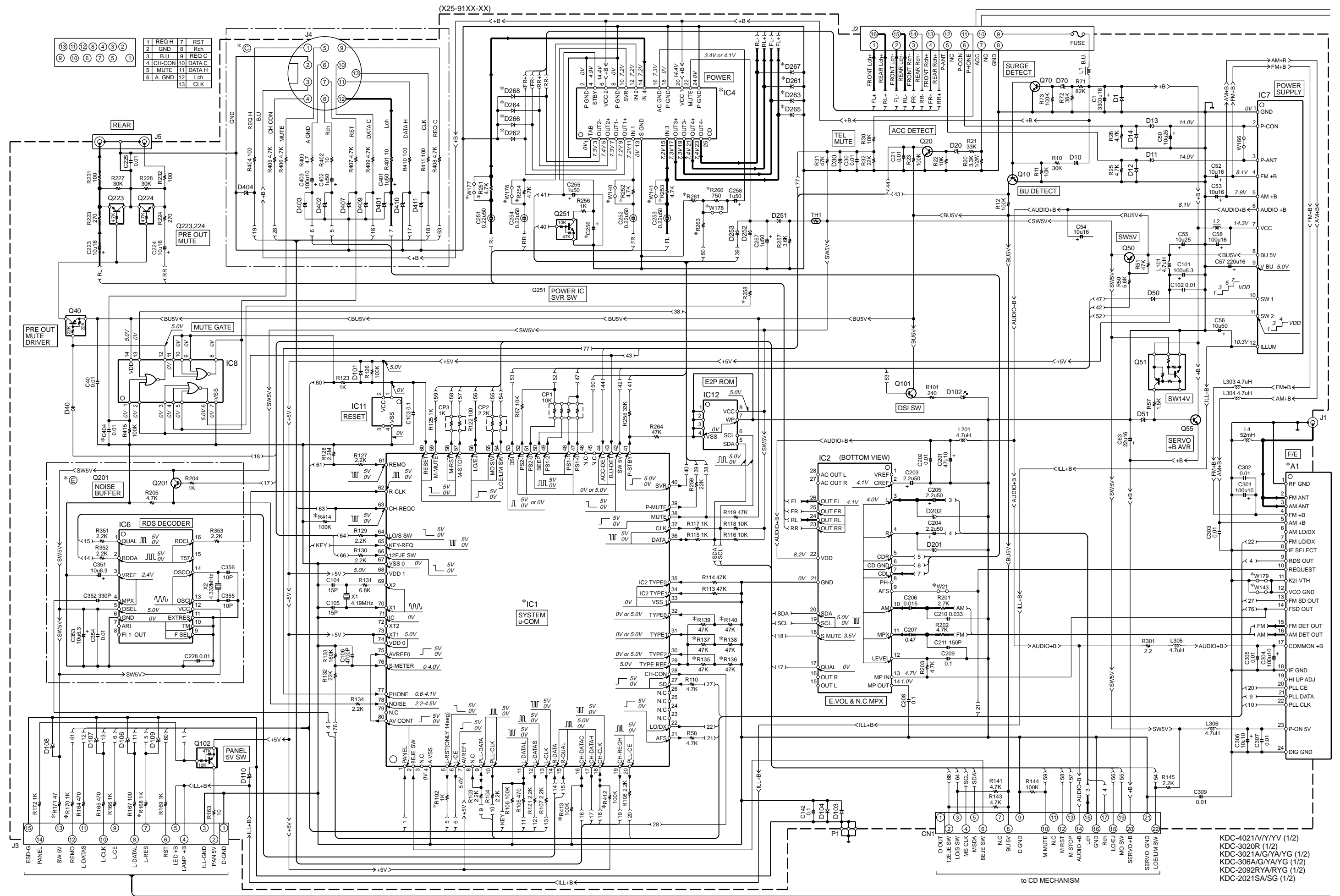
X16-1472-7x/
X16-1482-7x (J74-1288-12)

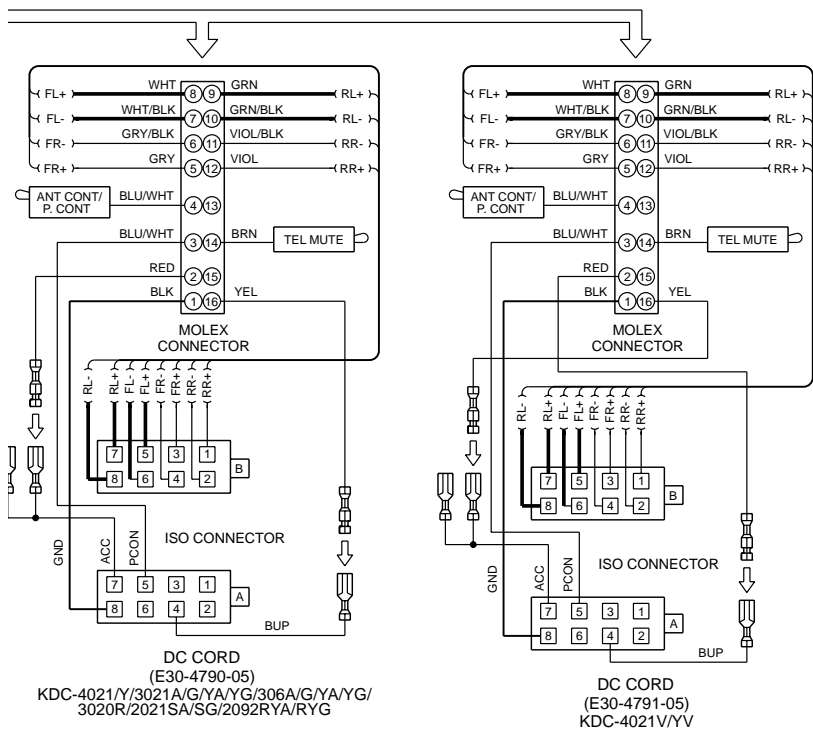


IC	Q	Address
1		4D
	1	4D



IC	Q	Address	IC	Q	Address	IC	Q	Address	IC	Q	Address	IC	Q	Address
1		5F	8		4G	40	3I		101	6E		251		3G
2		4H	11		5E	50	4G		102	6F				
4		2H	12		4H	51	3E		201	4I				
6		5I		10	3F	55	2E		223	2I				
7		3E		20	3G	70	3F		224	2I				





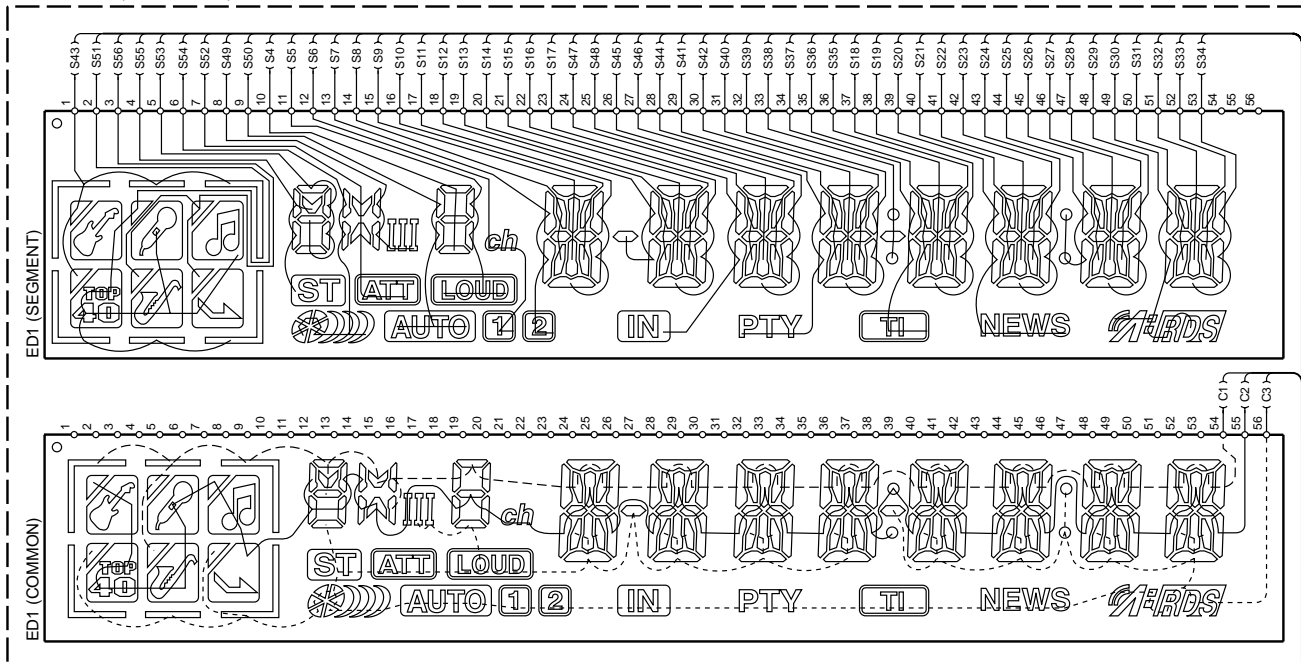
MODEL NAME	UNIT No.	©	Ⓔ	C256	C404	D261-268	IC1 (UPD780058GCXXX)	IC4	J3	R102, 168	R135	R136
KDC-4021 (E)	42-70	YES	YES	33u50	YES	YES	427	TDA7560	E58-0879	YES	NO	YES
KDC-4021Y (E)	32-70	YES	YES	33u50	YES	YES	427	TDA7560	E58-0879	YES	YES	NO
KDC-4021V (E)	42-71	YES	YES	33u50	YES	YES	427	TDA7560	E58-0879	YES	YES	NO
KDC-4021YV (E)	32-71	YES	YES	33u50	YES	YES	427	TDA7560	E58-0879	YES	YES	NO
KDC-3020R (M)	30-21	YES	YES	33u50	YES	YES	427	TDA7560	E58-0879	YES	NO	YES
KDC-3021A (E)	42-72	NO	YES	33u50	NO	YES	427	TDA7560	E58-0879	YES	YES	NO
KDC-306A (E)	42-74	NO	YES	33u50	NO	YES	427	TDA7560	E58-0879	YES	YES	NO
KDC-3021YA (E)	32-72	NO	YES	33u50	NO	YES	427	TDA7560	E58-0879	YES	YES	NO
KDC-306YA (E)	42-73	NO	YES	33u50	NO	YES	427	TDA7560	E58-0879	YES	YES	NO
KDC-3021G (E)	42-75	NO	YES	33u50	NO	YES	427	TDA7560	E58-0879	YES	NO	YES
KDC-306G (E)	32-73	NO	YES	33u50	NO	YES	427	TDA7560	E58-0879	YES	NO	YES
KDC-3021YG (E)	32-74	NO	YES	33u50	NO	YES	428	TDA7560	E58-0879	YES	YES	NO
KDC-2092RYA (E)	32-75	NO	YES	33u50	NO	YES	428	TDA7560	E58-0879	YES	NO	YES
KDC-2092RYG (E)	42-76	NO	NO	100u50	NO	NO	429	TDA7386	E58-0879	NO	NO	YES

UNIT No.	R137	R138	R139,170,171,412-414	R140	R251-254,260	R258	R261	R263	W21,140,141,176-178	W143	W179	A1 (F/E)
42-70	NO	YES	YES	NO	NO	220	10	4.3K	YES	NO	YES	X86-3512-70
32-70	NO	YES	YES	NO	NO	220	10	4.3K	YES	NO	YES	X86-3512-70
42-71	NO	YES	YES	NO	NO	220	10	4.3K	YES	NO	YES	X86-3512-70
32-71	NO	YES	YES	NO	NO	220	10	4.3K	YES	NO	YES	X86-3512-70
30-21	YES	NO	YES	NO	NO	220	10	4.3K	YES	NO	YES	X86-3512-70
42-72	NO	YES	NO	YES	NO	220	10	4.3K	YES	NO	YES	X86-3512-70
42-74	NO	YES	NO	YES	NO	220	10	4.3K	YES	NO	YES	X86-3512-70
32-72	NO	YES	NO	YES	NO	220	10	4.3K	YES	NO	YES	X86-3512-70
42-73	NO	YES	NO	YES	NO	220	10	4.3K	YES	NO	YES	X86-3512-70
42-75	NO	YES	NO	YES	NO	220	10	4.3K	YES	YES	NO	X86-3512-72
32-74	NO	YES	NO	YES	NO	220	10	4.3K	YES	YES	NO	X86-3512-72
32-75	NO	YES	NO	YES	NO	220	10	4.3K	YES	YES	NO	X86-3512-72
42-76	NO	YES	NO	YES	YES	100	430	180K	NO	NO	YES	X86-3522-71

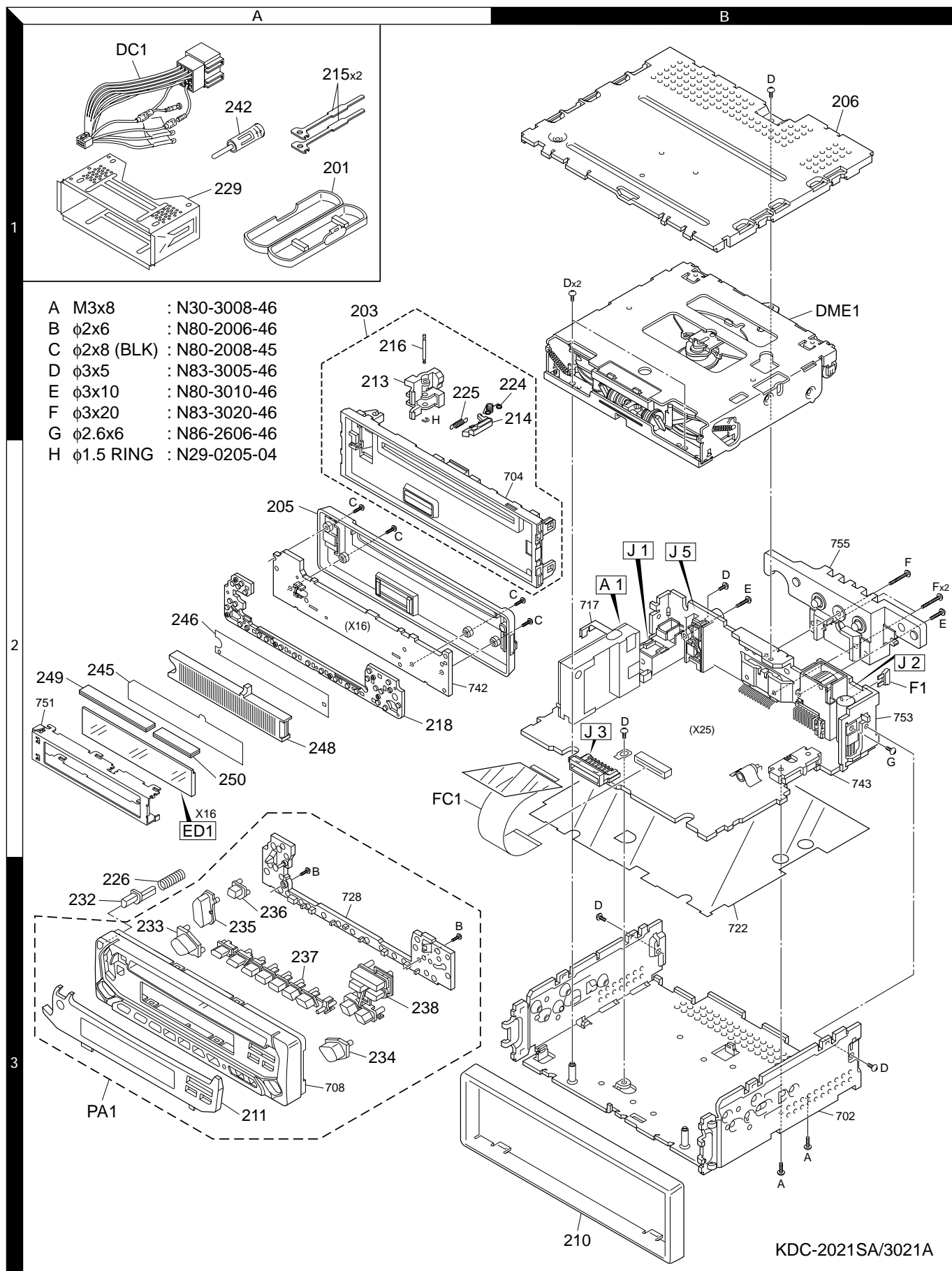
IC1	: *	D1	: 1N5393G-M6
IC2	: TDA7407D	D10,20,70,201,202,401,402	: MA4068(N)-M
IC4	: *	D11,13,264,267,268: D1F60	
IC6	: TDA7479D	D12,14,261-263,265,266	
IC7	: BA4911-V4		
IC8	: HD74HC27FP		
IC11	: S-80835ANNP		
IC12	: BR24C01AF		
Q10,20,70,201	: 2SC4081 or 2SD1819A	D30	: MA4047-M or HZS5B1
Q40	: DTA124EUA or UN5112	D40,50,101,103,104,251-253	: 1SS133
Q50	: 2SA1036K	D51	: MA4082(N)-L or HZS9A1L
Q51	: UMC2N	D102	: B30-1567-05
Q55	: 2SD2375 or 2SD2396	D106-109,403,404,407,409-411	: MA4062-L
Q102	: DTA114YUA or UN5114	D110	: HZS12A2
Q223,224	: DTC143TUA or UN5216		
Q251	: DTC114YUA or UN5214		

— SIGNAL LINE
—<+B— +B LINE

SWITCH UNIT (X16-14XX-XX)



EXPLODED VIEW



KDC-2021SA/3021A

PARTS LIST

* New parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
KDC-2092RYA/RYG, 3021A/G/YA/YG, 306A/G/YA/YG					
201	1A		A02-1486-13	PLASTIC CABINET ASSY	
203	1A		A22-2863-03	SUB PANEL ASSY	
205	2A	*	A46-1750-01	REAR COVER	
206	1B	*	A52-0804-02	TOP PLATE	
PA1	3A	*	A64-2553-02	PANEL ASSY	E0E1
PA1	3A	*	A64-2553-02	PANEL ASSY	E2E3
PA1	3A	*	A64-2563-02	PANEL ASSY	E4E5
PA1	3A	*	A64-2565-02	PANEL ASSY	E6E7
PA1	3A	*	A64-2565-02	PANEL ASSY	E8E9
210	3B		B07-3054-02	ESCUTCHEON	
211	3A	*	B10-4139-01	FRONT GLASS	E0E1
211	3A	*	B10-4139-01	FRONT GLASS	E2E3
211	3A	*	B10-4140-01	FRONT GLASS	E4E5
211	3A	*	B10-4142-01	FRONT GLASS	E6E7
211	3A	*	B10-4142-01	FRONT GLASS	E8E9
-			B46-0100-50	WARRANTY CARD	E0E1
-			B46-0100-50	WARRANTY CARD	E6E7
-			B46-0182-14	ID CARD	E0E1
-			B46-0182-14	ID CARD	E6E7
-			B46-0606-04	ID CARD	E2E3E4
-			B46-0606-04	ID CARD	E5E8E9
-			B58-1365-04	CAUTION CARD	
-		*	B64-2112-00	INSTRUCTION MANUAL (ENGLISH)	E0E1
-		*	B64-2112-00	INSTRUCTION MANUAL (ENGLISH)	E6E7
-		*	B64-2113-00	INSTRUC. MANUAL (FRE.GER.ITA.)	E0E1
-		*	B64-2113-00	INSTRUC. MANUAL (FRE.GER.ITA.)	E6E7
-		*	B64-2119-00	INSTRUC. MANUAL (ENG.RUS.POL.)	E2E3E4
-		*	B64-2119-00	INSTRUC. MANUAL (ENG.RUS.POL.)	E5E8E9
-		*	B64-2120-00	INSTRUC. MANUAL (CZE.HUN.CRO.)	E2E3E4
-		*	B64-2120-00	INSTRUC. MANUAL (CZE.HUN.CRO.)	E5E8E9
-		*	B64-2121-00	INSTRUCTION MANUAL (SWE.FIN.)	E2E3E4
-		*	B64-2121-00	INSTRUCTION MANUAL (SWE.FIN.)	E5E8E9
-		*	B64-2231-00	INSTRUC. MANUAL (DUT.SPA.POR.)	E0E1
-		*	B64-2231-00	INSTRUC. MANUAL (DUT.SPA.POR.)	E6E7
213	1A		D10-4446-03	LEVER	
214	2A		D10-4447-03	LEVER	
215	1A		D10-4589-04	LEVER	
216	1A		D21-2329-04	SHAFT	
218	2A	*	E29-1872-02	CONDUCTIVE RUBBER	
DC1	1A		E30-4790-05	DC CORD	
FC1	2A		E39-0343-05	FLAT CABLE	
F1	2B		F52-0006-05	FUSE (MINI BLADE TYPE)	
224	1A	*	G01-2987-04	TORSION COIL SPRING	
225	1A	*	G01-3096-04	EXTENSION SPRING	
226	3A	*	G01-3149-04	COMPRESSION SPRING	
-		*	H10-4800-02	POLYSTYRENE FOAMED FIXTURE	E0E1
-		*	H10-4800-02	POLYSTYRENE FOAMED FIXTURE	E6E7
-		*	H10-4801-02	POLYSTYRENE FOAMED FIXTURE	E2E3E4
-		*	H10-4801-02	POLYSTYRENE FOAMED FIXTURE	E5E8E9
-			H25-0329-04	PROTECTION BAG (280X450X0.03)	E2E3E4
-			H25-0329-04	PROTECTION BAG (280X450X0.03)	E5E8E9

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
-			H25-0337-04	PROTECTION BAG (180X300X0.03)	
-			H25-1111-04	PROTECTION BAG (280X450X0.03)	E0E1
-			H25-1111-04	PROTECTION BAG (280X450X0.03)	E6E7
-		*	H54-2280-03	ITEM CARTON CASE	E2
-		*	H54-2281-03	ITEM CARTON CASE	E3
-		*	H54-2282-03	ITEM CARTON CASE	E4
-		*	H54-2287-03	ITEM CARTON CASE	E0
-		*	H54-2288-03	ITEM CARTON CASE	E1
-		*	H54-2305-03	ITEM CARTON CASE	E6
-		*	H54-2350-03	ITEM CARTON CASE	E5
-		*	H54-2430-03	ITEM CARTON CASE	E7
-		*	H54-2485-03	ITEM CARTON CASE	E8
-		*	H54-2486-03	ITEM CARTON CASE	E9
229	1A		J21-9641-13	MOUNTING HARDWARE ASSY	
232	3A	*	K24-3822-04	KNOB (RELEASE)	
233	3A	*	K24-3823-04	KNOB (SRC)	
234	3A	*	K24-3824-04	KNOB (AUD)	
235	3A	*	K24-3825-03	KNOB (VOL)	
236	3A	*	K24-3826-04	KNOB (EJECT)	
237	3A	*	K25-1396-03	KNOB (PRE1-6,ATT,RESET)	
238	3A	*	K25-1397-03	KNOB (AUTO,CLK,FM,AM)	
A	3B		N30-3008-46	PAN HEAD MACHINE SCREW	
B	3A		N80-2006-46	PAN HEAD TAPTITE SCREW	
C	2A		N80-2008-45	PAN HEAD TAPTITE SCREW	
D	1B		N83-3005-46	PAN HEAD TAPTITE SCREW	
H	1A		N29-0205-04	RETAINING RING (1.5)	
242	1A		T90-0523-05	ANTENNA ADAPTOR	
DME1	1B	*	X92-4030-00	MECHANISM ASSY	E2E3E4
DME1	1B	*	X92-4030-00	MECHANISM ASSY	E5E8E9
DME1	1B	*	X92-4030-01	MECHANISM ASSY	E0E1
DME1	1B	*	X92-4030-01	MECHANISM ASSY	E6E7
SWITCH UNIT (X16-1472-7x/1482-7x)					
245	2A	*	B11-1358-04	OPTICAL DIFFUSER	
246	2A	*	B11-1359-04	REFLECTION SHEET	
248	2A	*	B19-2130-03	LIGHTING BOARD	
D1-13			B30-1533-05	LED (1608,PG)	E1E7
D1-13			B30-1533-05	LED (1608,PG)	E3E5E9
D1-13			B30-1567-05	LED (1608,RED)	E0E6
D1-13			B30-1567-05	LED (1608,RED)	E2E4E8
D17,18			B30-1533-05	LED (1608,PG)	E1E7
D17,18			B30-1533-05	LED (1608,PG)	E3E5E9
D17,18			B30-1567-05	LED (1608,RED)	E0E6
D17,18			B30-1567-05	LED (1608,RED)	E2E4E8
D19			B30-1633-05	LED (WHITE)	
D20			B30-1533-05	LED (1608,PG)	E1E7
D20			B30-1533-05	LED (1608,PG)	E3E5E9
D20			B30-1567-05	LED (1608,RED)	E0E6
D20			B30-1567-05	LED (1608,RED)	E2E4E8
ED1		*	B38-1083-05	LIQUID CRYSTAL	
C1			CK73GB1H102K	CHIP C 1000PF K	
C2,3			CK73GB1E473K	CHIP C 0.047UF K	
C2,3			CK73GB1H473K	CHIP C 0.047UF K	

△ Indicates safety critical components.

PARTS LIST

* New parts

Parts without **Parts No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

SWITCH UNIT (X16-1472-7x/1482-7x)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
C4			CK73GB1H103K	CHIP C 0.010UF K		C225			CK73GB1H103K	CHIP C 0.010UF K	
C9			CK73GB1H103K	CHIP C 0.010UF K		C228			CK73GB1H103K	CHIP C 0.010UF K	
249	2A		E29-1829-04	CONDUCTIVE RUBBER		C251-254			C90-5296-05	NP-ELECT 0.22UF 50WV	
250	2A		E29-1834-04	CONDUCTIVE RUBBER		C255			CE04NW1H010M	ELECTRO 1.0UF 50WV	
J1			E59-0828-05	RECTANGULAR PLUG		C256			CE04NW1A330M	ELECTRO 33UF 10WV	
-		*	J19-5130-04	HOLDER (LED)		C257			CE04NW1H010M	ELECTRO 1.0UF 50WV	
R1			RK73GB2A102J	CHIP R 1.0K J 1/10W		C258			C90-2935-05	ELECTRO 1.0UF 50WV	
R2-4			RK73GB2A471J	CHIP R 470 J 1/10W		C301			CE04NW1A101M	ELECTRO 100UF 10WV	
R5			RK73GB2A102J	CHIP R 1.0K J 1/10W		C302,303			CK73GB1H103K	CHIP C 0.010UF K	
R6			RK73GB2A473J	CHIP R 47K J 1/10W		C304			CE04CW1A101M	ELECTRO 100UF 10WV	
R7			RK73GB2A472J	CHIP R 4.7K J 1/10W		C305			CK73GB1H103K	CHIP C 0.010UF K	
R8			RK73GB2A563J	CHIP R 56K J 1/10W		C306			C90-2594-05	ELECTRO 10UF 10WV	
R10			RK73GB2A4R7J	CHIP R 4.7 J 1/10W		C307			CK73GB1H103K	CHIP C 0.010UF K	
R14,15			RK73FB2B331J	CHIP R 330 J 1/8W		C309			CK73GB1H103K	CHIP C 0.010UF K	E2E3E8
R16-20			RK73FB2B511J	CHIP R 510 J 1/8W		C309			CK73GB1H103K	CHIP C 0.010UF K	E6E7
R21,22			RK73FB2B221J	CHIP R 220 J 1/8W		C309			CK73GB1H103K	CHIP C 0.010UF K	E9E0E1
D22			MA3062WA	ZENER DIODE		C309,310			CK73GB1H103K	CHIP C 0.010UF K	E4E5
IC1			LC75883E	MOS-IC		C351			C90-2592-05	ELECTRO 10UF 6.3WV	
Q1			DTA114EUA	DIGITAL TRANSISTOR		C352			CC73GCH1H331J	CHIP C 330PF J	
Q1			UN5111	DIGITAL TRANSISTOR		C353			C90-2592-05	ELECTRO 10UF 6.3WV	
ELECTRIC UNIT (X25-9132-7x/9142-7x)						C354			CK73GB1H103K	CHIP C 0.010UF K	
D102			B30-1567-05	LED (1608,RED)		C355,356			CC73GCH1H100D	CHIP C 10PF D	
C1			C90-5242-05	ELECTRO 3300UF 16WV		CN1			E40-9550-05	FLAT CABLE CONNECTOR	
C21			CK73GB1H103K	CHIP C 0.010UF K		J1			E04-0312-05	RF COAXIAL CABLE RECEPTACLE	
C30			CK73GB1H103K	CHIP C 0.010UF K		J2			E58-0863-15	RECTANGULAR RECEPTACLE	
C40			CK73GB1H103K	CHIP C 0.010UF K		J3			E58-0879-05	RECTANGULAR RECEPTACLE	
C50			CE04NW1E100M	ELECTRO 10UF 25WV		J5			E63-0852-05	PIN JACK	
C52-54			CE04NW1C100M	ELECTRO 10UF 16WV		L1			L33-1170-05	CHOKE COIL ASSY	
C55			CE04NW1E100M	ELECTRO 10UF 25WV		L2			L33-1807-05	CHOKE COIL	
C56			CE04CW1H100M	ELECTRO 10UF 50WV		L4			L33-1123-05	LINE FILTER COIL	
C57			C90-2980-05	ELECTRO 220UF 16WV		L101			L40-4795-91	SMALL FIXED INDUCTOR (4.7UH,J)	
C58			C90-2962-05	ELECTRO 100UF 16WV		L201			L40-4795-91	SMALL FIXED INDUCTOR (4.7UH,J)	
C63			CE04NW1C220M	ELECTRO 22UF 16WV		L303-306			L40-4795-91	SMALL FIXED INDUCTOR (4.7UH,J)	
C101			CE04NW0J101M	ELECTRO 100UF 6.3WV		X1			L77-1167-05	CRYSTAL RESONATOR (4.19M)	
C102			CK73GB1H103K	CHIP C 0.010UF K		X2			L77-2002-05	CRYSTAL RESONATOR	
C103			CK73GB1C104K	CHIP C 0.10UF K		D	2B		N83-3005-46	PAN HEAD TAPTITE SCREW	
C103			CK73GB1H104K	CHIP C 0.10UF K		E	2B		N80-3010-46	PAN HEAD TAPTITE SCREW	
C104,105			CC73GCH1H150J	CHIP C 15PF J		F	2B		N83-3020-46	PAN HEAD TAPTITE SCREW	
C106			CK73GB1H472K	CHIP C 4700PF K		G	2B		N86-2606-46	BINDING HEAD TAPTITE SCREW	
C142			CK73GB1C104K	CHIP C 0.10UF K		CP1			R90-1056-05	MULTIPLE RESISTOR	
C142			CK73GB1H104K	CHIP C 0.10UF K		CP2			R90-1047-05	MULTIPLE RESISTOR	
C201			CE04NW1A470M	ELECTRO 47UF 10WV		CP3			R90-1046-05	MULTIPLE RESISTOR	
C202			CK73GB1H103K	CHIP C 0.010UF K		R10			RK73FB2B303J	CHIP R 30K J 1/8W	
C203-205			CE04NW1H2R2M	ELECTRO 2.2UF 50WV		R11			RK73GB2A103J	CHIP R 10K J 1/10W	
C206			CK73GB1H153K	CHIP C 0.015UF K		R12			RK73GB2A104J	CHIP R 100K J 1/10W	
C207			CK73GB1A474K	CHIP C 0.47UF K		R20			RD14DB2H332J	SMALL-RD 3.3K J 1/2W	
C208,209			CK73GB1C104K	CHIP C 0.10UF K		R22			RK73GB2A103J	CHIP R 10K J 1/10W	
C208,209			CK73GB1H104K	CHIP C 0.10UF K		R23			RK73GB2A104J	CHIP R 100K J 1/10W	
C210			CK73GB1E333K	CHIP C 0.033UF K		R31			RK73GB2A473J	CHIP R 47K J 1/10W	
C210			CK73GB1H333K	CHIP C 0.033UF K		R32			RK73GB2A223J	CHIP R 22K J 1/10W	
C211			CC73GCH1H151J	CHIP C 150PF J		R51			RK73GB2A473J	CHIP R 47K J 1/10W	
C223,224			C90-2597-05	ELECTRO 10UF 16WV		R57			RK73FB2B152J	CHIP R 1.5K J 1/8W	
						R58			RK73GB2A472J	CHIP R 4.7K J 1/10W	
						R67			RK73GB2A103J	CHIP R 10K J 1/10W	

E0 : KDC-3021A

E1 : KDC-3021G

E2 : KDC-3021YA

E3 : KDC-3021YG

E4 : KDC-2092RYA

E5 : KDC-2092RYG

E6 : KDC-306A

E7 : KDC-306G

E8 : KDC-306YA

E9 : KDC-306YG

△ Indicates safety critical components.

PARTS LIST

* New parts

Parts without **Parts No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

ELECTRIC UNIT (X25-9132-7x/9142-7x)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R71		*	RK73GB2A823J	CHIP R 82K J 1/10W	
R72		*	RK73GB2A363J	CHIP R 36K J 1/10W	
R73			RK73GB2A104J	CHIP R 100K J 1/10W	
R102			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R103,104			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R105			RK73GB2A471J	CHIP R 470 J 1/10W	
R106			RK73GB2A104J	CHIP R 100K J 1/10W	
R107,108			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R110			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R113,114			RK73GB2A473J	CHIP R 47K J 1/10W	
R115			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R116			RK73GB2A103J	CHIP R 10K J 1/10W	
R117			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R118			RK73GB2A103J	CHIP R 10K J 1/10W	
R119			RK73GB2A473J	CHIP R 47K J 1/10W	
R121			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R122			RK73GB2A101J	CHIP R 100 J 1/10W	
R123			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R125			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R126			RK73GB2A104J	CHIP R 100K J 1/10W	
R127			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R128			RK73GB2A225J	CHIP R 2.2M J 1/10W	
R129,130			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R131			RK73GB2A682J	CHIP R 6.8K J 1/10W	
R132			RK73GB2A223J	CHIP R 22K J 1/10W	
R133			RK73GB2A164J	CHIP R 160K J 1/10W	
R134			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R135			RK73GB2A473J	CHIP R 47K J 1/10W	E0E6
R135			RK73GB2A473J	CHIP R 47K J 1/10W	E2E4E8
R136			RK73GB2A473J	CHIP R 47K J 1/10W	E1E7
R136			RK73GB2A473J	CHIP R 47K J 1/10W	E3E5E9
R138			RK73GB2A473J	CHIP R 47K J 1/10W	
R140			RK73GB2A473J	CHIP R 47K J 1/10W	
R143			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R144			RK73GB2A104J	CHIP R 100K J 1/10W	
R201			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R202,203			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R204			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R205			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R223,224			RK73FB2B271J	CHIP R 270 J 1/8W	
R255			RK73GB2A333J	CHIP R 33K J 1/10W	
R256			RK73FB2B102J	CHIP R 1.0K J 1/8W	
R257		*	RK73GB2A362J	CHIP R 3.6K J 1/10W	
R258		*	RK73GB2A221J	CHIP R 220 J 1/10W	
R261		*	RK73GB2A100J	CHIP R 10 J 1/10W	
R263			RK73GB2A432J	CHIP R 4.3K J 1/10W	
R264			RK73GB2A473J	CHIP R 47K J 1/10W	
R415			RK73GB2A104J	CHIP R 100K J 1/10W	
W150			R92-1252-05	CHIP R 0 OHM J 1/16W	
W151			R92-2053-05	CHIP R 0 J 1/8W	
W152			R92-1252-05	CHIP R 0 OHM J 1/16W	
W155			R92-1252-05	CHIP R 0 OHM J 1/16W	
W156,157			R92-2053-05	CHIP R 0 J 1/8W	
W158,159			R92-1252-05	CHIP R 0 OHM J 1/16W	
W160-165			R92-2053-05	CHIP R 0 J 1/8W	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
W166-169			R92-1252-05	CHIP R 0 OHM J 1/16W	
W171-174			R92-1252-05	CHIP R 0 OHM J 1/16W	
W176-178			R92-1252-05	CHIP R 0 OHM J 1/16W	
W179			R92-2052-05	CHIP R 0 OHM J 1/10W	E2E3E8
W179			R92-2052-05	CHIP R 0 OHM J 1/10W	E6E7
W179			R92-2052-05	CHIP R 0 OHM J 1/10W	E9E0E1
D1			S2V20*A	DIODE	
D1			1N5393G-M6	DIODE	
D10			MA4068(N)-M	ZENER DIODE	
D11			D1F60	DIODE	
D12			AM01Z	DIODE	
D12			DSM1SD2	DIODE	
D12			ERA15-02	DIODE	
D13			D1F60	DIODE	
D14			AM01Z	DIODE	
D14			DSM1SD2	DIODE	
D14			ERA15-02	DIODE	
D20			MA4068(N)-M	ZENER DIODE	
D30			HZS5B1	ZENER DIODE	E2E3E4
D30			HZS5B1	ZENER DIODE	E5E8E9
D30			MA4047-M	ZENER DIODE	
D40			1SS133	DIODE	
D50			1SS133	DIODE	
D51			HZS9A1L	ZENER DIODE	E2E3E4
D51			HZS9A1L	ZENER DIODE	E5E8E9
D51			MA4082(N)-L	ZENER DIODE	
D70			MA4068(N)-M	ZENER DIODE	
D101			1SS133	DIODE	
D103,104			1SS133	DIODE	
D106-109			HZS6C1	ZENER DIODE	E2E3E4
D106-109			HZS6C1	ZENER DIODE	E5E8E9
D106-109			MA4062-L	ZENER DIODE	
D110		*	HZS12A2	ZENER DIODE	
D201,202			MA4068(N)-M	ZENER DIODE	
D251-253			1SS133	DIODE	
D261-263			AM01Z	DIODE	
D261-263			DSM1SD2	DIODE	
D261-263			ERA15-02	DIODE	
D264			D1F60	DIODE	E0E1E6
D264			D1F60	DIODE	E7
D264		*	S1J	DIODE	
D265,266			AM01Z	DIODE	
D265,266			DSM1SD2	DIODE	
D265,266			ERA15-02	DIODE	
D267,268			D1F60	DIODE	E0E1E6
D267,268			D1F60	DIODE	E7
D267,268		*	S1J	DIODE	
IC1		*	UPD780058GC427	MI-COM IC	E2E3E8
IC1		*	UPD780058GC427	MI-COM IC	E6E7
IC1		*	UPD780058GC427	MI-COM IC	E9E0E1
IC1		*	UPD780058GC428	MI-COM IC	E4E5
IC2			TDA7407D	ANALOGUE IC	
IC4		*	TDA7560	ANALOGUE IC	
IC6			TDA7479D	ANALOGUE IC	

△ Indicates safety critical components.

E0 : KDC-3021A

E4 : KDC-2092RYA

E6 : KDC-306A

E1 : KDC-3021G

E5 : KDC-2092RYG

E7 : KDC-306G

E2 : KDC-3021YA

E8 : KDC-306YA

E3 : KDC-3021YG

E9 : KDC-306YG

PARTS LIST

* New parts

Parts without **Parts No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

ELECTRIC UNIT (X25-9132-7x/9142-7x)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
IC7			BA4911-V4	ANALOGUE IC							
IC8			HD74HC27FP	MOS-IC							
IC11			S-80835ANNP	MOS-IC							
IC12			BR24C01AF	MEMORY IC							
IC12			BR24C01AF-W	MEMORY IC	E2E3E4						
IC12			BR24C01AF-W	MEMORY IC	E5E8E9						
IC12			M24C01-WMN6T	MEMORY IC							
IC12			S-24C01B	MEMORY IC							
Q10			2SC4081	TRANSISTOR							
Q10			2SD1819A	TRANSISTOR	E2E3E4						
Q10			2SD1819A	TRANSISTOR	E5E8E9						
Q20			2SC4081	TRANSISTOR							
Q20			2SD1819A	TRANSISTOR	E2E3E4						
Q20			2SD1819A	TRANSISTOR	E5E8E9						
Q40			DTA124EUA	DIGITAL TRANSISTOR							
Q40			UN5112	DIGITAL TRANSISTOR	E2E3E4						
Q40			UN5112	DIGITAL TRANSISTOR	E5E8E9						
Q50			2SA1036K	TRANSISTOR							
Q51			UMC2N	TRANSISTOR							
Q55			2SD2375	TRANSISTOR							
Q55			2SD2396	TRANSISTOR							
Q70			2SC4081	TRANSISTOR							
Q70			2SD1819A	TRANSISTOR	E2E3E4						
Q70			2SD1819A	TRANSISTOR	E5E8E9						
Q101			2SC4081	TRANSISTOR							
Q101			2SD1819A	TRANSISTOR	E2E3E4						
Q101			2SD1819A	TRANSISTOR	E5E8E9						
Q102			DTA114YUA	DIGITAL TRANSISTOR							
Q102			UN5114	DIGITAL TRANSISTOR	E2E3E4						
Q102			UN5114	DIGITAL TRANSISTOR	E5E8E9						
Q201			2SC4081	TRANSISTOR							
Q201			2SD1819A	TRANSISTOR	E2E3E4						
Q201			2SD1819A	TRANSISTOR	E5E8E9						
Q223,224			DTC143TUA	DIGITAL TRANSISTOR							
Q223,224			UN5216	DIGITAL TRANSISTOR	E2E3E4						
Q223,224			UN5216	DIGITAL TRANSISTOR	E5E8E9						
Q251			DTC114YUA	DIGITAL TRANSISTOR							
Q251			UN5214	DIGITAL TRANSISTOR	E2E3E4						
Q251			UN5214	DIGITAL TRANSISTOR	E5E8E9						
TH1			PTH9C42BE471Q	POSITIVE RESISTOR							
A1		*	X86-3512-70	FRONT-END UNIT	E2E3E8						
A1		*	X86-3512-70	FRONT-END UNIT	E9						
A1		*	X86-3512-72	FRONT-END UNIT	E4E5						
A1			X86-3522-71	FRONT-END UNIT	E0E1E6						
A1			X86-3522-71	FRONT-END UNIT	E7						

E0 : KDC-3021A

E1 : KDC-3021G

E2 : KDC-3021YA

E3 : KDC-3021YG

E4 : KDC-2092RYA

E5 : KDC-2092RYG

E6 : KDC-306A

E7 : KDC-306G

E8 : KDC-306YA

E9 : KDC-306YG

△ Indicates safety critical components.

SPECIFICATIONS

KDC-2092RYA/RYG

FM

Frequency Range	65MHz~74MHz
Frequency step	30kHz
Frequency Range	87.5MHz~108.0MHz
Frequency step	50kHz
Usable Sensitivity (S/N 26dB)	
65MHz~74MHz	1.4μV/75Ω
87.5MHz~108.0MHz	0.7μV/75Ω
Quieting Sensitivity (S/N 46dB)	
65MHz~74MHz	1.4μV/75Ω
87.5MHz~108.0MHz	1.6μV/75Ω
Frequency Response (±3.0dB)	30Hz~15kHz
S/N (dB)	65dB (MONO)
Selectivity (DIN) (dB)	≥80dB (±400kHz)
Stereo Separation	
65MHz~74MHz	not specified
87.5MHz~108.0MHz	35dB (1kHz)

MW

Frequency Range (kHz)	531kHz~1611kHz
(Frequency step)	(9kHz)
Usable Sensitivity (S/N 20dB)	25μv

LW

Frequency Range (kHz)	153kHz~281kHz
Usable Sensitivity (S/N 20dB)	45μv

CD

Laser Diode	GaAlAs (λ=780nm)
Digital Filter (D/A)	8 times Over Sampling
D/A Converter	1 Bit
Spindle Speed	500~200 (CLV)
Wow & Flutter	Below Mesurable Limit
Frequency Respons	10~20kHz (±1dB)
THD	0.01% (1kHz)
S/N Ratio (dB)	96dB (1kHz)
Dynamic Range	93dB
Channel Separation	85dB

Preout Level (mV)/Load	1800mV/10kΩ (CD/CD-CH)
Preout Impedance (Ω)	≤600Ω

AMP

Maximum Power	50wx4
Power (DIN 45324, +B=14.4V)	30wx4

TONE

Bass	100Hz±10dB
Middle	1kHz±10dB
Treble	10kHz±10dB

GENERAL

Operating voltage (11~16v allowable)	14.4V
Current Consumption	10A
Installation Size (Width)	182mm (7-3/16 inch)
(Height)	53mm (2-1/16 inch)
(Depth)	157mm (6-3/16 inch)
Weight	3.1 lbs (1.4kg)

KDC-3021A/G/YA/YG, KDC-306A/G/YA/YG

FM

Frequency Range	87.5MHz~108.0MHz
Frequency step	50kHz
Usable Sensitivity (S/N 26dB)	0.7μV/75Ω
Quieting Sensitivity (S/N 46dB)	1.6μV/75Ω
Frequency Response (±3.0dB)	30Hz~15kHz
S/N (dB)	65dB (MONO)
Selectivity (DIN) (dB)	≥80dB (±400kHz)
Stereo Separation	35dB (1kHz)

MW

Frequency Range (kHz)	531kHz~1611kHz
(Frequency step)	(9kHz)
Usable Sensitivity (S/N 20dB)	25μv

LW

Frequency Range (kHz)	153kHz~281kHz
Usable Sensitivity (S/N 20dB)	45μv

CD

Laser Diode	GaAlAs (λ=780nm)
Digital Filter (D/A)	8 times Over Sampling
D/A Converter	1 Bit
Spindle Speed	500~200 (CLV)
Wow & Flutter	Below Mesurable Limit
Frequency Respons	10~20kHz (±1dB)
THD	0.01% (1kHz)
S/N Ratio (dB)	96dB (1kHz)
Dynamic Range	93dB
Channel Separation	85dB

Preout Level (mV)/Load	1800mV/10kΩ (CD)
Preout Impedance (Ω)	≤600Ω

AMP

Maximum Power	50wx4
Power (DIN 45324, +B=14.4V)	30wx4

TONE

Bass	100Hz±10dB
Middle	1kHz±10dB
Treble	10kHz±10dB

GENERAL

Operating voltage (11~16v allowable)	14.4V
Current Consumption	10A
Installation Size (Width)	182mm (7-3/16 inch)
(Height)	53mm (2-1/16 inch)
(Depth)	157mm (6-3/16 inch)
Weight	3.1 lbs (1.4kg)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.